



"Miller, Robert"  
<RoMiller@asarco.com>  
10/15/2007 02:51 PM

To Linda Jacobson/ENF/R8/USEPA/US@EPA  
cc  
bcc  
Subject RE: Arsenic/Selenium/Sulfate

Sure. We'll take care of this.

-----Original Message-----

From: Jacobson.Linda@epamail.epa.gov  
[mailto:Jacobson.Linda@epamail.epa.gov]  
Sent: Thursday, October 11, 2007 1:05 PM  
To: Nickel, Jon; Miller, Robert; Breeden.Randy@epamail.epa.gov  
Subject: Arsenic/Selenium/Sulfate

Please see the email below and let me know if you can find time to expand the table as requested. Please also include your selenium data for comparison purposes.

Thank you so much.

Linda Jacobson

----- Forwarded by Linda Jacobson/ENF/R8/USEPA/US on 10/11/2007 02:04 PM  
-----

Linda  
Jacobson/ENF/R8/  
USEPA/US

08/31/2007 05:12  
PM

Jack Sheets/TMS/R8/USEPA/US  
To  
cc  
dkirkpatrick@mt.gov,  
JNickel@asarco.com, Randy  
Breeden/P2/R8/USEPA/US@EPA, Rick  
Wilkin/ADA/USEPA/US@EPA,  
RoMiller@asarco.com, Steven  
Callio/TMS/R8/USEPA/US@EPA  
Subject  
Re: Arsenic/Selenium/Sulfate  
(Document link: Linda Jacobson)

Bob and Jon,

As you know, we did not analyze for sulfate or other common ions. Could you please expand Jack's table to include the results for sulfate, iron, and chloride also? Thanks.

Linda Jacobson

Jack  
Sheets/TMS/R8/US  
EPA/US

08/31/2007 11:24  
AM

Linda  
Jacobson/ENF/R8/USEPA/US@EPA

To

CC

dkirkpatrick@mt.gov,  
JNickel@asarco.com, Randy  
Breedon/P2/R8/USEPA/US@EPA, Rick  
Wilkin/ADA/USEPA/US@EPA,  
RoMiller@asarco.com, Steven  
Callio/TMS/R8/USEPA/US@EPA

Subject

Re: Arsenic/Selenium/Sulfate  
(Document link: Linda Jacobson)

Linda

Here's a comparison between the ICP and ICP-MS results for Se in samples I analyzed. Although there are a limited number of samples and maybe exclusive of the samples of your interest, it would appear that there isn't a problem with interferences for these samples.

(Embedded image moved to file: pic06210.jpg)

Jack D. Sheets  
USEPA Region 8 Laboratory  
16194 West 45th Drive  
Golden, CO 80403  
303-312-7793  
E-mail: sheets.jack@epa.gov

Linda  
Jacobson/ENF/R8/  
USEPA/US

08/30/2007 03:56  
PM

To

Steven  
Callio/TMS/R8/USEPA/US@EPA, Jack  
Sheets/TMS/R8/USEPA/US@EPA, Randy  
Breedon/P2/R8/USEPA/US@EPA,  
dkirkpatrick@mt.gov, Rick  
Wilkin/ADA/USEPA/US@EPA,  
JNickel@asarco.com,  
RoMiller@asarco.com

cc

Subject

Arsenic/Selenium/Sulfate

Steve and Jack,

We and the company are trying to figure out what's going on with the selenium plume. Is there some kind of analytical interference which could occur for selenium analysis with either high arsenic concentrations and/or high sulfate concentrations present? For the next round of selenium analysis, are there special techniques or methods which we or the company could use to evaluate these potential impacts, if they could exist?

Thanks for your help.

Linda Jacobson

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